

ANACONDA SYSTEM

Model 828M **NEW!** Anaconda™ 64x64 Digital Snake



Building on the wide acceptance of the original Anaconda, Aphex' new Model 828M is a point-to-point 64 channel bi-directional snake designed to easily and cost effectively connect digital or analog audio systems as a mic snake or a drive snake for industry standard preamplifiers, consoles, DAWs and recorders. The new Anaconda Model 828M features two MADI outputs as well as pass-through for digital audio at 96kHz sample rate via SMUX protocol. Comprised of two identical units on either end of a long distance optical fiber run, the 828M offers eight ADAT optical inputs and outputs on each unit for local interfacing. Word clock is generated by an ultra-precision voltage-controlled crystal; external word clock is fed through one BNC terminated with 75Ω, and word clock distribution through eight BNCs; and one RJ-45 for control and metering/status feedback for products such as the Aphex 188 and 178BA mic preamplifiers. Each unit has two fiber transceivers with automatic failure switching for redundancy. The transceivers use industry standard SC connectors (or optional ST connectors) for use with low cost, readily available multimode fiber. Two internal power supplies automatically switch if one fails.

Model 824

Anaconda™ Distribution Hub



Expands Anaconda system to add up to four receivers. Connects Anaconda system to up to four receivers. Redundant fiber connections and redundant power supplies.

Model 141 and Model 142

8-Channel D/A and A/D Converters



High-quality 8-channel converters. Model 141 offers ADAT-to-analog conversion. Model 142 provides analog-to-ADAT and word clock input. Both feature 12dB of continuous trim on each channel for ideal interfacing with any analog system. Analog connections via TASCAM standard 25 pin D-Sub

Model 144

AES/ADAT/AES Converter



Bidirectional ADAT-AES and AES-ADAT converter. Converts four stereo pairs of AES and 8 channels of ADAT. AES connections via Aphex standard 15 pin D-Sub.

ANACONDA SYSTEM

Model 141A and Model 142A **NEW!** 8-Channel D/A and A/D Converters



Professional-quality 8-channel digital converters, similar to the standard 140 Series converters but also offering SMUX capabilities, allowing them to be used at 44.1, 48, 88.2, and 96kHz sample rates. Model 141A offers ADAT-to-analog conversion. Model 142A provides analog-to-ADAT and word clock input. Both feature 12dB of continuous trim on each channel for ideal interfacing with any analog system. Analog connections via TASCAM standard 25 pin D-Sub.

Model 144A **NEW!** AES/ADAT/AES Converter



Bidirectional ADAT-AES and AES-ADAT converter at up to 96kHz sample rates. Converts four stereo pairs of AES and 8 channels of ADAT. AES connections via Aphex standard 15 pin D-Sub.

MODEL 2020 MKIII

The ultimate dynamics processor for FM, TV, Streaming, Post Production and Mastering



The worldwide standard in broadcast processing for facilities that demand the best in audio quality and reliability. Digitally controlled analog processor. Wide band leveler, 4-band compressor, split-band peak clipper, plus optional pre-emphasis filter, stereo generator and digital I/O. The power of Aphex' unique and proprietary innovations make the 2020 MkIII the loudest yet cleanest processor available today. Other features include password security system, programmable and automatable settings, remote and local control, RDS input/output and dual composite outputs, headphone I/O monitor, and more. Digital I/O option includes our patented Drift Stabilized A to D Converters.

The Model 2020MkIII has been hailed worldwide as the FM processor of choice for stations where sound quality and loudness are equally important. Review after review references "clarity", "naturalness", "loudness", "lack of annoying artifacts", "great value", "deep, rich bottom end", "clear, undistorted midrange and highs" — the list of accolades goes on and on.

Users of the 2020MkIII include nationally-renowned television, radio broadcasters, recording and mastering studios, and film/video post production facilities.

PEDAL PROCESSORS

Model 1401 Acoustic Xciter™



For any traditional acoustic instrument with active or passive pickups. Voicing is clean and open. Gives better articulation, clarity and projection with a feeling of fuller reach to the lowest notes.

"The Acoustic Xciter will let your dream be heard. Allow me to introduce my guitar's best friend!"
(Thom Bresh)

Model 1402 Bass Xciter™



For bassists who want to truly bring out the best in their tone. Works with active or passive pickups, magnetic or piezo. Voicing is tailored to deep tone and sustain while adding life to the bite or slap. Makes smaller rigs sound bigger, and big rigs sound huge. A favorite of many touring and session pros.

Model 1403 Guitar Xciter™



Providing a wider range of tone and depth for electric guitarists. Takes Aural Exciter and Big Bottom technology and voices it to provide the widest range of expression for rock, jazz, and pop guitar styles. Makes amps seem more powerful, with accelerated attacks. Improves overdrive ones but can also run very clean.

Model 1404 Punch Factory™



A studio-quality optical compressor in a pedal format. Clean, transparent compression for all instruments. Go from subtle to extreme compression without altering your tone or breaking up. Punch through the mix, live or studio, with enhanced tone and dynamic control.

MODEL 454 HEADPOD™

Professional high headroom, high output, and high quality 4-output headphone distribution pod. Features four independent stereo power amplifiers, and choice of discrete balanced inputs or a stereo unbalanced input. Perfect for all types of headphones. Also available: optional mic stand mounting bracket.



APHEX

PRODUCT LINE

APHEX SYSTEMS

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Improving The Way The World SoundsSM

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LeNa™ Thermionics • Logic Assisted™ • Big Bottom™ • MicLim™ • Xciter™ • Easyrider™ • Compeller™ • Anaconda™ • HeadPod™ • Expressor™
aural exciters • microphone preamplifiers • dynamics processors • audio interfaces • effects pedals • broadcast processors • signal transport

WELCOME TO APHEX!

Founded in 1975, Aphex Systems is the leading developer and innovator of signal processing, dynamics control, microphone preamplifiers and analog-to-digital conversion systems. Aphex products are designed for a wide cross section of professional end users in broadcast, music production, live sound reinforcement, fixed installations, and other applications in audio around the world.

KEY APHEX TECHNOLOGIES

Reflected Plate Amplifier® (RPA)

The Reflected Plate Amplifier (US Patent #5,450,034) is a true vacuum tube circuit which has the desired audio characteristics without the heat, weight, fragility, sonic variability, short life and HF roll-off of other tube designs. Used in Models 207D, 230, 661, and 1100MkII.

MicLim™ - The world's only mic level limiter

The patented MicLim is a custom-designed optical attenuator, located directly on the mic input line, that smoothly limits the microphone's output signal according to the MicLim peak detector's control current. Since attenuation comes prior to preamplification, the MicLim can increase effective headroom by up to 20dB. Used in Models 207D, 1100 MkII and 1788A.

VCA 1001 - World's fastest voltage controlled attenuator

The VCA 1001's high slew rate and extremely low noise and distortion are essential for maintaining the audio quality of our products and allowing their unsurpassed performance characteristics. Control feedthrough in other VCA's typically causes clicks, pops and processing errors. These factors are almost non-existent in the VCA 1001, even when exercised at high speeds.

APHEX TRADEMARKS AND PATENTS

Aphex has never been satisfied with the limitations of off-the-shelf parts and tired circuit designs in the creation of our innovative, award-winning products. Over a dozen Aphex technologies have been granted patents (and even more are pending), indicating that they truly offer a unique advantage over less advanced tools. The following Aphex proprietary circuits are in many of the products listed in this catalog: High Frequency Expander, Wave Dependent Compressor, Transient Discriminate Harmonics Generator, Reflected Plate Amplifier, Logic Assisted Gate, Bass Enhancer, Aural Exciter, Dynamic Verification Gate, Automatic Limit Threshold, Parallel Path Digital Modulation, Frequency Dependent Leveler, Split Band Clipper, Drift Stabilized A/D Converter, Distributed Pre-emphasis Filter, Sticky Leveler, Phase Coherent Crossover, Post Crossover Multiband Technique, Selectable Peak Accelerated Compressor. This circuitry is protected by the following U.S. patents: #5155769, #5483600, #5424488, #5450034, #5334947, #5359665, #4150253, #4578648, #4843626, #5422602, #5463695, #6266423. Other U.S. patents issued and/or pending. Other trademarks are the property of their respective holders.

Aphex, Aphex Thermionics, Aural Exciter, Big Bottom, Compellor, Dominator, Easyrider, Expressor, Tubessence, MicLim, LoCof, LeNA, Xciter, Punch Factory, Anaconda, and HeadPod are trademarks of Aphex Systems, Ltd.

All Aphex products are CE and UL or ETL listed, and are RoHS compliant. Other US and Foreign patents issued or pending. Aphex is 100% owned and engineered in the U.S.A.

MICROPHONE PREAMPLIFIERS

Model 230

Master Voice Channel



The most powerful processor ever designed specifically for voice – spoken word or singing. RPA™ tube mic preamplifier, Easyrider® compressor, Logic Assisted™ Gate, Split band de-esser, Big Bottom®, Aural Exciter®, and parametric EQ, plus 24-bit/96kHz A/D, all in a single rack space. Perfect for the studio, radio, TV, Podcasts or live. Touch your listeners with the 230!

Model 207D

Tube Mic/ Instrument Preamplifier



Two channels of the award-winning tube mic and instrument preamp using the patented RPA™ vacuum tube circuit for a present, open and detailed sound. MicLim™ attenuates signal before preamplification, giving up to 20dB more headroom. The 207D adds AES3 and S/PDIF digital interfacing at up to 96kHz.

Model 1788A

8 Channel Remote Controlled Mic Preamplifier



The world standard in remote control preamplification for touring, fixed installation, remote recording and more. 8 channels of Jensen™ transformer-coupled mic pre's with two analog outputs and a new optional 24-bit/192kHz A/D with AES, (2) ADAT, and AES3ID. Control via Ethernet with a PC or Mac, or the 1788A-RC hardware remote, MIDI or Pro Tools®. MicLim™ provides up to 20dB additional headroom. LeNA™ allows input gain adjustments without any clicks or pops. Two test tones (0dBfs and -20dBfs) for complete system check. Headphone output. Can be controlled by Yamaha digital consoles via RS-422.

Model 1788A-RC

Remote Controller for 1788A and 188 Mic Preamps



Controls up to 128 units of 1788A or 188 preamps. Can interface with other 1788A-RC, the 1788A PC and Mac software control, Pro Tools® commands via MIDI, Yamaha control via RS-422.

MICROPHONE PREAMPLIFIERS

Model 188

8 Channel Remote Mic Preamplifier



Streamlined, cost-effective 8-channel remote mic pre for live sound and remote recording. One analog output plus two ADAT outputs for redundant operation or higher sampling rates via SMUX. 1RU rackspace design and lower power requirements. A perfect preamplification choice for the Anaconda system.

AUDIO INTERFACES

Model 120A

Distribution Amp



High performance audio distribution amplifier with one input, one thru-put, and four Low-Z Servo-Balanced outputs. Connections via XLR.

Model 124A

Stereo Level Interface



Stereo bi-directional -10dBV to +4dBu interface. Seamless signal level conversion via Servo Balanced +4 and active single ended -10 I/O. +4dBu connections via XLR, -10dBV connections via RCA.

Model 148

8x32 Digital Audio Splitter



The Model 148 splits 8 channels (4 pairs) of digital audio into 32 channels (16 pair) AES3 connections with up to 192kHz sampling rates. Connections via Aphex standard 15 pin D-Sub.

Model 228

8-Channel Unidirectional Level Interface



8-channel consumer -10dBV RCA unbalanced inputs feed 8 channels of professional +4dBu XLR balanced outputs. Perfect for interfacing CD/DVD/MP3 players with consoles, recorders, amplifiers and other equipment. Trimmed for exactly 12dB of gain with up to 12dB of attenuation. Perfect to match multiple stereo sources with different output levels.

Rackmount kits available for all 100 Series products.

DYNAMICS PROCESSORS

Model 240

Dual Logic Gated Compressor



Dual-channel compression and gating using Aphex' industry-standard Easyrider® compression and Logic Assisted™ gating technology. Compressor and gate are gain locked to avoid conflicting dynamics processing.

Model 320D

Compellor®



The ultimate automatic gain control. Combines compressor, leveler, and limiter controlled by three proprietary "brains". Dual mono or stereo operation. Model 320D features AES3 digital inputs and outputs at up to 96kHz.

Model 661

Tubessence® Tube Compressor



This powerful compressor's RPA circuit makes your audio warm and engaging. The high-frequency expander adds life and air to compressed signals. Manual controls for all compression parameters, plus Easyrider for flawless automatic operation.

Model 720 and Model 722

Dominator™ II Precision Peak Limiters



Transparent stereo multiband brick-wall limiting. Multi-band techniques plus the patented Automatic Limit Threshold allows for higher output level (loudness) without distortion or hole punching. The excellent solution for getting the most out of digital equipment while protecting your system (and your ears). Model 722 includes selectable 50 or 75µsec pre-emphasis and complementary de-emphasis.

AURAL EXCITERS

Model 204

Aural Exciter® and Optical Big Bottom®



Two-channels of world renowned, patented Aural Exciter and Big Bottom will add presence, clarity, fullness, body, punch, detail and depth, all without significantly increasing peak levels. Clinically proven to increase intelligibility, it is perfect for every speech application. Even brings MP3s back to life!

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